

**AMENDMENT TO H.R. 5658, AS REPORTED  
OFFERED BY MR. FOSTER OF ILLINOIS**

At the end of title XXXI, insert the following:

1 **SEC. 31\_\_ . ENHANCING NUCLEAR FORENSICS CAPABILI-**  
2 **TIES.**

3 (a) **NNSA FELLOWSHIP PROGRAM FOR GRADUATE**  
4 **STUDENTS IN NUCLEAR CHEMISTRY.—**

5 (1) **IN GENERAL.—**The Administrator for Nu-  
6 clear Security shall establish a fellowship program  
7 for graduate students who are Ph.D. candidates in  
8 the field of nuclear chemistry.

9 (2) **SENSE OF CONGRESS.—**It is the sense of  
10 Congress that the fellowship program should—

11 (A) support at least six graduate students  
12 per year; and

13 (B) require each graduate student to spend  
14 at least two summers in a national security lab-  
15 oratory over the course of the program.

16 (3) **FUNDING.—**Of the amounts appropriated  
17 pursuant to an authorization of appropriations in  
18 this Act or otherwise made available within National  
19 Nuclear Security Administration, weapons activities,  
20 for national technical nuclear forensics for fiscal

1 year 2009, \$3,000,000 shall be available to establish  
2 the fellowship program.

3 (4) REPORT.—No later than February 1, 2009,  
4 the Administrator shall submit to the congressional  
5 defense committees a report on the establishment of  
6 the fellowship program. The report shall include a  
7 description of the costs of continuing the program  
8 for fiscal year 2010 and thereafter.

9 (b) NNSA RESEARCH AND DEVELOPMENT PROGRAM  
10 ON NUCLEAR FORENSICS RADIATION-MEASUREMENT  
11 EQUIPMENT.—

12 (1) IN GENERAL.—The Administrator for Nu-  
13 clear Security shall carry out a research and devel-  
14 opment program to improve the speed and accuracy  
15 of nuclear forensics radiation-measurement equip-  
16 ment.

17 (2) FUNDING.—Of the amounts appropriated  
18 pursuant to an authorization of appropriations in  
19 this Act or otherwise made available within National  
20 Nuclear Security Administration, weapons activities,  
21 for national technical nuclear forensics for fiscal  
22 year 2009, \$2,000,000 shall be available to carry out  
23 the research and development program.

24 (3) REPORT.—No later than February 1, 2009,  
25 the Administrator shall submit to the congressional

1 defense committees a report on the research and de-  
2 velopment program. The report shall include a de-  
3 scription of the costs of continuing the program for  
4 fiscal year 2010 and thereafter.

5 (c) ADDITIONAL INFORMATION TO BE INCLUDED IN  
6 REPORT ON NUCLEAR FORENSICS CAPABILITIES.—Sec-  
7 tion 3129(b) of the National Defense Authorization Act  
8 for Fiscal Year 2008 (Public Law 110–181; 122 Stat.  
9 585) is amended—

10 (1) in paragraph (2) by striking “and” at the  
11 end;

12 (2) in paragraph (3) by striking the period at  
13 the end and inserting “; and”; and

14 (3) by adding at the end the following:

15 “(4) any legislative, regulatory, or treaty ac-  
16 tions necessary to facilitate international cooperation  
17 in enhancement of international nuclear-material  
18 databases and the linking of those databases to en-  
19 able prompt data access.”.

20 (d) NUCLEAR FORENSICS ADVISORY PANEL.—

21 (1) ESTABLISHMENT.—The Secretary of De-  
22 fense, the Secretary of Energy, and the Secretary of  
23 Homeland Security shall establish a joint inde-  
24 pendent Nuclear Forensics Advisory Panel of recog-  
25 nized experts not directly associated with the Fed-

1       eral laboratories. The function of the panel shall be  
2       to provide independent validation of any Federal nu-  
3       clear forensics analysis.

4           (2) REPORT.—Not later than 180 days after  
5       the date of the enactment of this Act, the Secre-  
6       taries referred to in paragraph (1) shall submit a re-  
7       port on the structure and membership of the panel  
8       required by that paragraph. The report shall be sub-  
9       mitted to—

10           (A) the Committee on Appropriations,  
11       Committee on Armed Services, and Committee  
12       on Homeland Security of the House of Rep-  
13       resentatives; and

14           (B) the Committee on Appropriations,  
15       Committee on Armed Services, and Committee  
16       on Homeland Security and Government Affairs  
17       of the Senate.

18       (e) PRESIDENTIAL REPORT ON INVOLVEMENT OF  
19       CABINET-LEVEL LEADERSHIP IN CERTAIN EXERCISES  
20       THAT INCLUDE NUCLEAR FORENSICS ANALYSIS.—Not  
21       later than 90 days after the date of the enactment of this  
22       Act, the President shall submit a report on the involve-  
23       ment of Cabinet-level leadership in planned nuclear ter-  
24       rorism preparedness exercises that have nuclear forensics

1 analysis as a component of the exercise. The report shall  
2 be submitted to—

3 (1) the Committee on Appropriations, Com-  
4 mittee on Armed Services, and Committee on Home-  
5 land Security of the House of Representatives; and

6 (2) the Committee on Appropriations, Com-  
7 mittee on Armed Services, and Committee on Home-  
8 land Security and Government Affairs of the Senate.

